

Max's Market Multiplication Challenge

Learning objective: To multiply numbers up to 4 digits by a 1-digit or 2-digit number using a formal written method.

Read the story about Max the monkey and help him solve his market math problems. Show your working out clearly for each calculation.

Max the monkey is helping his friends at the woodland market. He needs to make sure everyone pays the right amount for their fresh produce. Max knows that multiplication is just a clever way to add up groups of the same size. Today, he is selling bunches of bananas, bags of crunchy carrots, and pots of forest honey. Max loves using his column multiplication method to solve these puzzles quickly so he can get back to climbing trees!

Word bank: multiply · product · calculate · formal method · place value · total

1. Max sells 14 bunches of bananas. Each bunch costs £3. How much money does Max make in total for the bananas? (2 marks)

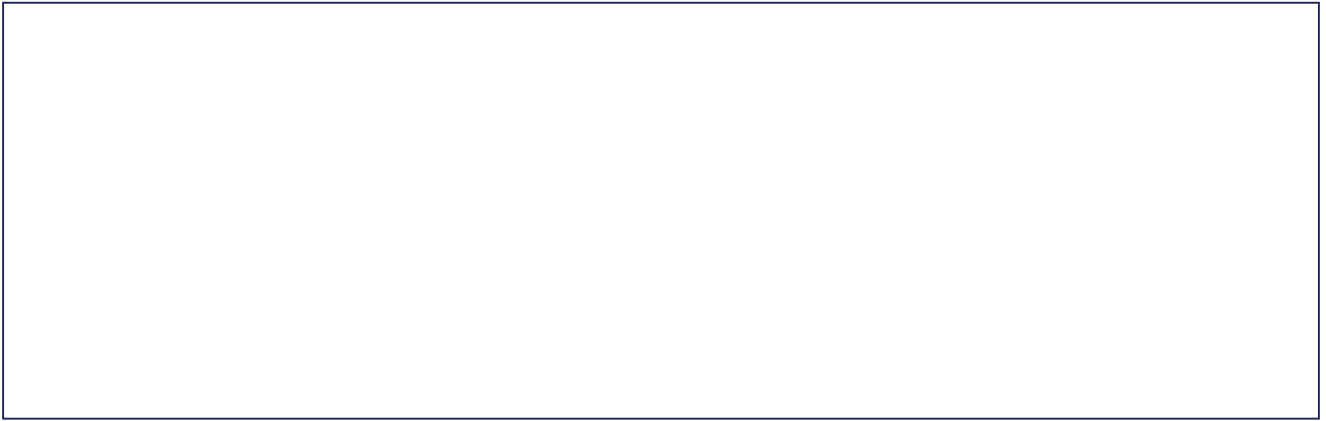
2. A large bag of carrots costs £12. If 23 rabbits each buy one bag, what is the total amount of money Max collects? (2 marks)

3. Each pot of honey costs £24. If Max sells 125 pots to the woodland residents, calculate the total value of the honey sold. (2 marks)

4. Max has 450 acorns. He wants to share them equally into 5 piles. Why is division the inverse of multiplication, and how could you use that to check your multiplication answers? (2 marks)

5. If a farmer brings 1,234 apples to the market and sells each one for £2, how much money will the farmer have after selling all of them? (2 marks)

Draw: Draw a picture of Max the monkey standing behind a market stall with bunches of bananas and pots of honey, including a price tag for one item that is a multiple of 5.



Extension challenge: Challenge: If Max sells 256 items at £15 each, can you calculate the total? Explain your method to a partner, ensuring you mention the value of the digits in each column.